

# LEGEND Intrusive rocks

### **C**g

/DJMg

(Eocene) Three Valley Gap Lamprophyre dykes: Calc-alkaline kersantites. EN

(Eocene? Proterozoic?) Frigg dykes: Calc-alkaline gabbro. EFd

(Early Paleocene) Lady Bird leucogranite: Leucoquartz monzonite with plutonic or pegmatitic equivalents.

(Jurassic) Galena Bay stock: Muscovite granite ?? **J**GBg

(Permian - Triassic) Pyroxenite and/or equivalent ultramafic rocks.

(Devonian) Joss Mountain orthogneiss: Granite to granodiorite.

### Monashee complex

### Cover assemblage (Proterozoic to



Undifferentiated paragneiss comprising any or all of the units listed below.



Amphibolite including garnet amphibolite and biotite amphibolite.



Pelitic and semi-pelitic schists and gneisses: Generally rich in aluminosilicate minerals and garnet. May contain lenses of quartzite, calc-silicate and amphibolite.



Calc-silicate gneiss: may contain lenses of pelitic schist, amphibolite and marble (below); generally coloured green and purple.



Quartzitic calc-silicate gneiss: May contain lenses of calc-silicate gneiss with some schist and marble.



Psammitic, semi-pelitic, pelitic schist: Generally containing aluminosilicate minerals and garnet; may contain lenses of calc-silicate, marble (below), amphibolite or quartzite (below).



Quartzite: Comprised mostly of quartz with varying amounts of feldspar; may contain lenses of pelitic schist; Includes the Empress Lake, Mt. Thor, and Joss Mountain quartzites.



Marble: May contain lenses of calc-silicate and pelitic or semi-pelitic schist; commonly buff, brown or white coloured, includes the Empress marble.



- Calc-silicate gneiss: May contain lenses and layers of pelitic schist, quartzite, amphibole and marble.
- Basal quartzite: Variable amount of feldspar grading into faserkiesel gneiss (below); Commonly with well developed banding, generally defined by biotite and/or muscovite rich layers; may contain lenses of schist and/or paragneiss and ampbibolite.





Faserkiesel gneiss: Large porportion of feldspar with quartz; contains abundant cm scale quartz/sillimanite pods (faserkiesel).

#### Basement assemblage (Paleoproterozoic)



Undifferentiated para- and orthogneiss: predominatly migmatitic paragneiss with lesser amounts of



Orthoamphibole-corderite (OAC) mafic schist: May contain abundant aluminosilicate minerals, Olivine and spinel with OAC, aluminosilicate and/or garnet with OAC; may be associated with



Amphibolite including garnet amphibolite and biotite amphibolite.



Biotite-quartz-feldspar paragneiss: Characterized by large, abundant garnetiferous amphibolite boudins and granitic pegmatite; Includes Fawn Lake assembage and parts of the Three Valley



Biotite-feldspar-quartz paragneiss: Commonly psammitic; may contain lenses of pelitic schist, garnet-feldspar-quartz gneiss and amphibolite; commonly with granitc pegmatite; may be in part equivalent to biotite-quartz feldspar paragneiss above.







Hornblende-biotite granodiorite orthogneiss: Includes augen orthogneiss, biotite orthogneiss, as well as biotite granite orthogneiss (below) and "flecky" hornblende leucogranite.



Biotite granodiorite orthogneiss: Contains about 50% biotite; unit C3b of Reesor and Moore, 1971.



Granodiorite orthogneiss: Contains about 10-15% biotite; unit C3c of Reesor and Moore, 1971.



Quartzite



Calc-silicate (diopside) gneiss: Characterized by extensive outcrop of diopsidic boudins with marble, paragneiss and quartzite (below) layers.





Biotite-Quartz-feldspar gneiss: Characterized by a, continuous, well differentiated layering without a large proportion of granitic orthogneiss.

# Joss Mountain complex



Marble: Brown weathering marble with calc-silicate gneiss interlayers.

Quartzite: White weathering; massive.

Hetrogeneous paragneiss: May include calc-silicate gneiss, semi-pelitic or psammitic gneiss.

Semi-pelitic schist and gneiss; May include psammitic schist and gneiss. /P JMsp



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45

